

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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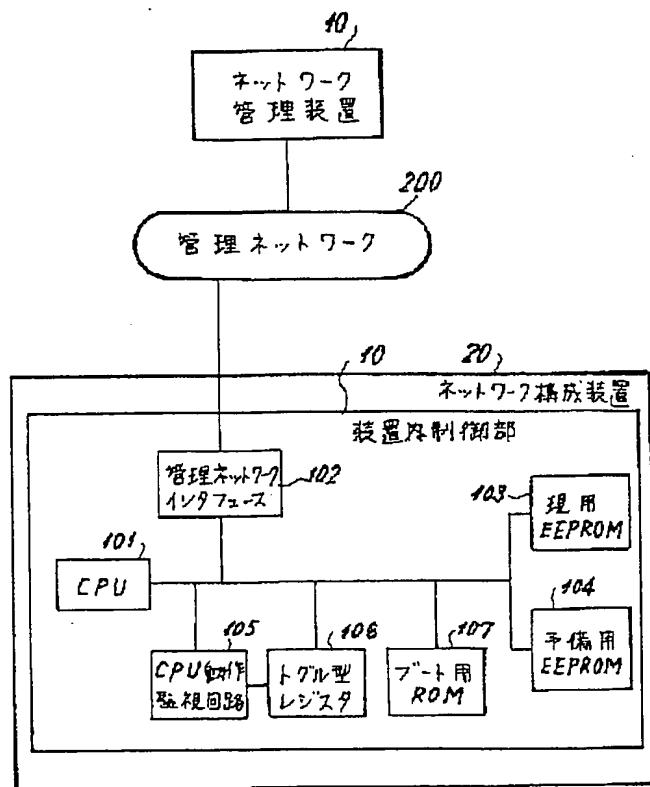
APPLICATION DATE : 02-12-91  
APPLICATION NUMBER : 03341769

APPLICANT : NEC CORP;

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TITLE : REMOTE DOWN LOADING SYSTEM  
FOR SOFTWARE



ABSTRACT : PURPOSE: To perform a remote down loading operation of software in an on-line state without stopping the device functions when the software of plural devices forming a network are updated.

CONSTITUTION: A network forming device 20 contains a working program memory EEPROM 103 and a stand-by EEPROM 104 so that a broadcast type communication and a 1-1 type communication are available in a control network 200, and carries out the simultaneous software down loading operations in the broadcast communication from a network controller 10 to plural devices and a confirming operation in the 1-1 communication method. Furthermore a state set before the switching to the EEPROM 103 is reset in an abnormal state with the rise processing of a ROM 107. Thus the communicating function of the network 2 is assured.

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